Solving Quadratic Equations

Solve each quadratic equation by factoring.

1) $15x^2 + 15 = -34x$	2) $4q^2 - 7q - 2 = 0$
3) $2m^2 + 11m - 6 = 0$	4) $8u^2 + 71u + 56 = 0$
5) $p(6p - 23) = 4$	6) $10h^2 - 13h + 4 = 0$
7) $4y^2 + 3 = 7y$	8) $5k^2 + 23k - 10 = 0$

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Answer key

Solve each quadratic equation by factoring.

1) $15x^2 + 15 = -34x$	2) $4q^2 - 7q - 2 = 0$
$x = -\dfrac{3}{5}$ and $x = -\dfrac{5}{3}$	$q = 2$ and $q = -\dfrac{1}{4}$
3) $2m^2 + 11m - 6 = 0$	4) $8u^2 + 71u + 56 = 0$
$m = \dfrac{1}{2}$ and $m = -6$	$u = -\dfrac{7}{8}$ and $u = -8$
5) $p(6p - 23) = 4$	6) $10h^2 - 13h + 4 = 0$
$p = -\dfrac{1}{6}$ and $p = 4$	$h = \dfrac{4}{5}$ and $h = \dfrac{1}{2}$
7) $4y^2 + 3 = 7y$	8) $5k^2 + 23k - 10 = 0$
$y = 1$ and $y = \dfrac{3}{4}$	$k = -5$ and $k = \dfrac{2}{5}$